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Docket No.: 10165-022-999

Serial No.: 10/612,665

Inventor(s): Nielsen et al.

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs



FIG.4

Docket No.: 10165-022-999

Serial No.: 10/612,665

Inventor(s): Nielsen et al.

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

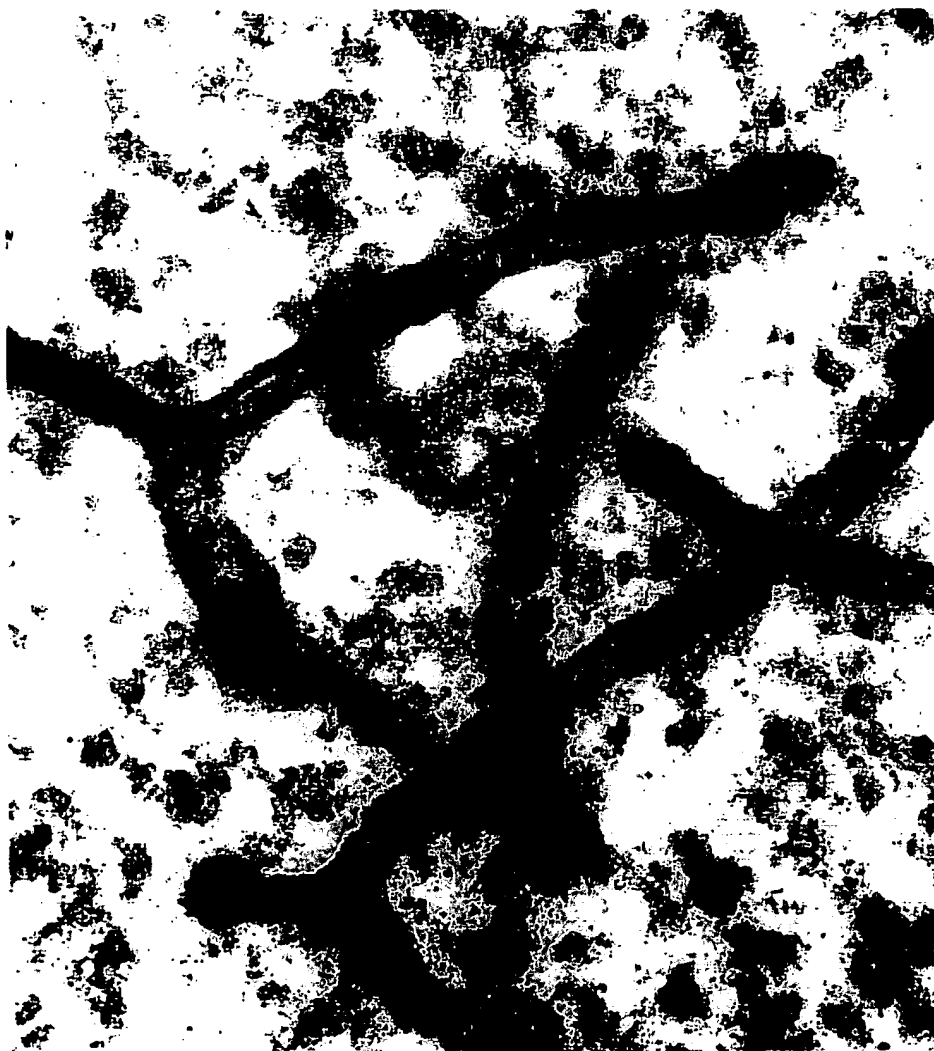


FIG.2

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FIG.3

Docket No.: 10165-022-999

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FIG.1

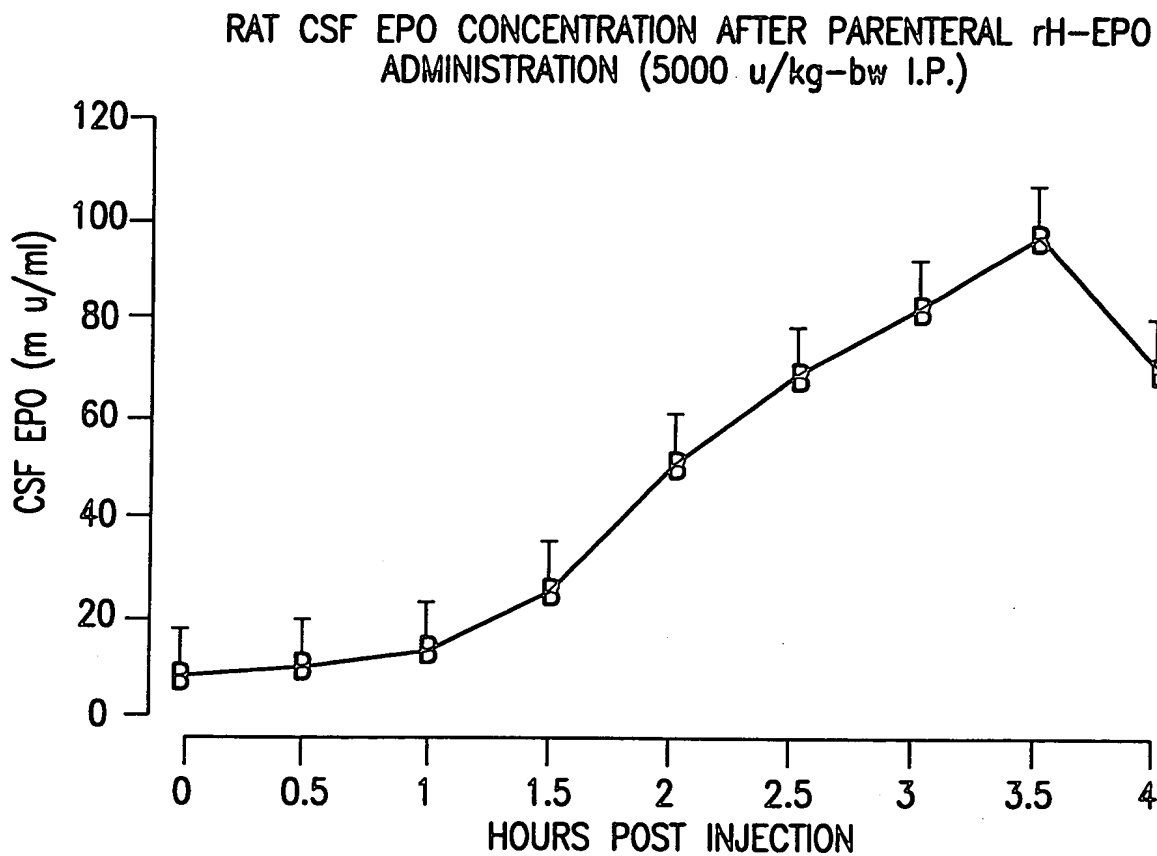


FIG.5

SK-N-SH NEUROBLASTOMA CELLS
NEUROPROTECTION ASSAY (AGAINST ROTENONE)

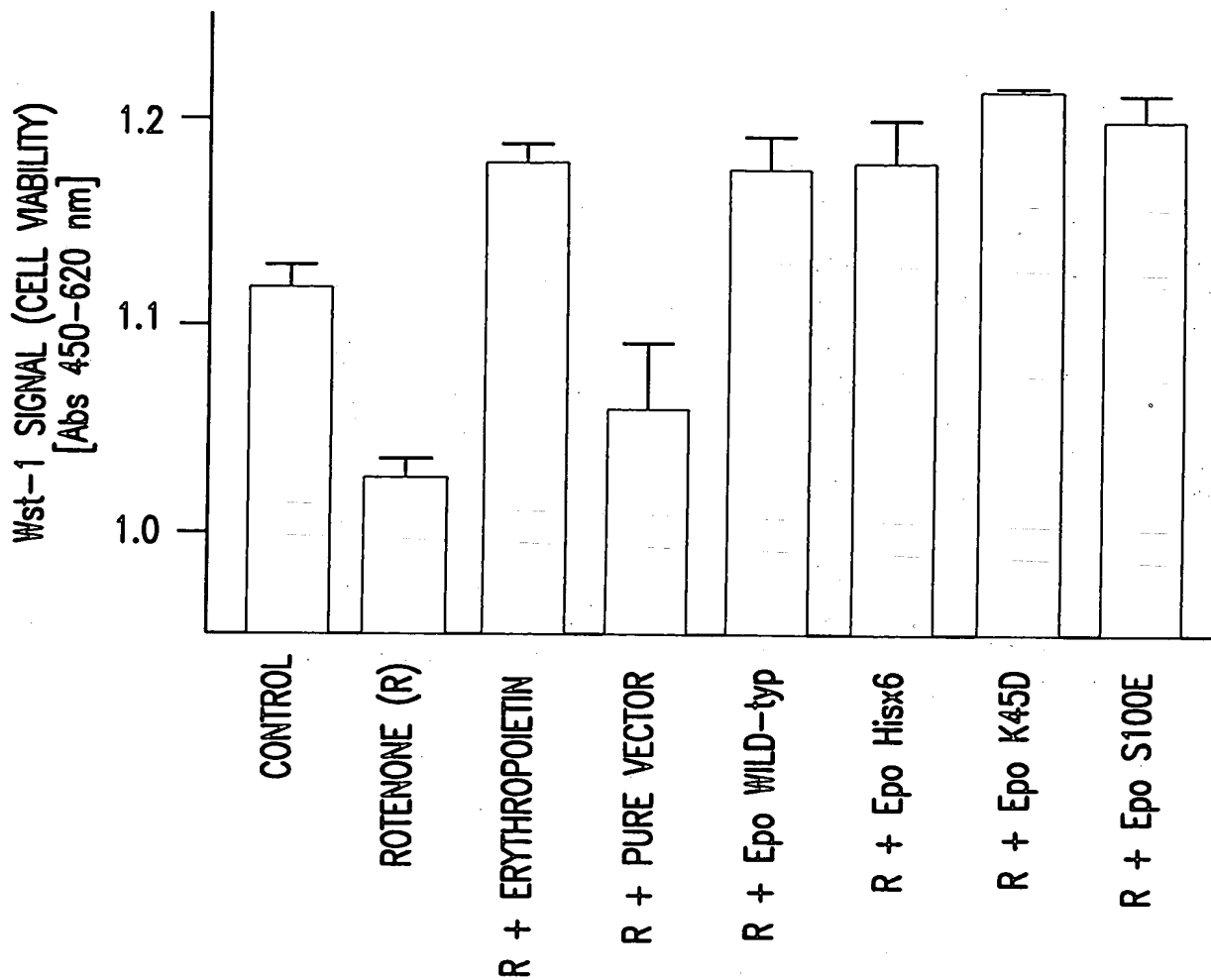


FIG. 6A

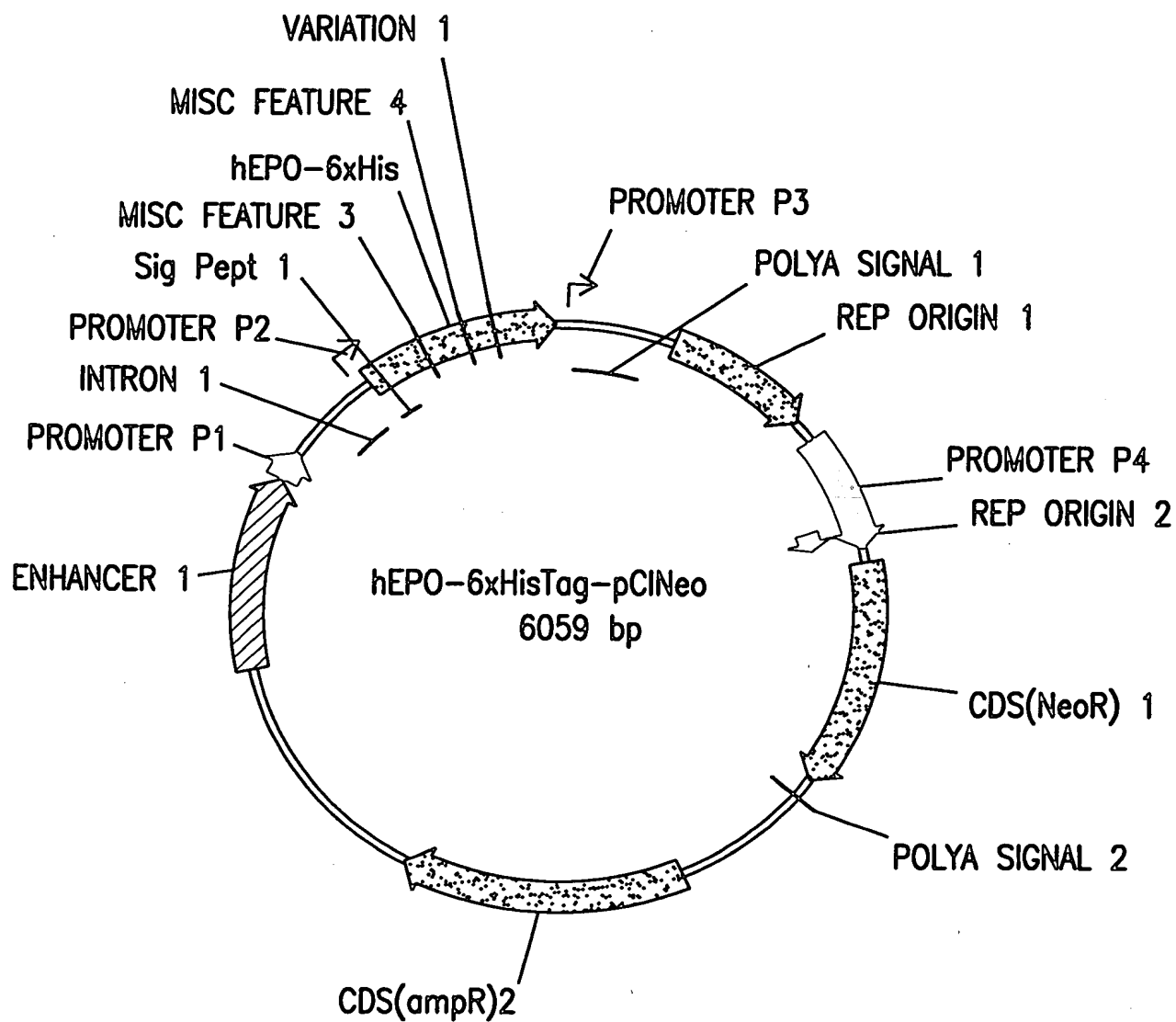


FIG. 6B

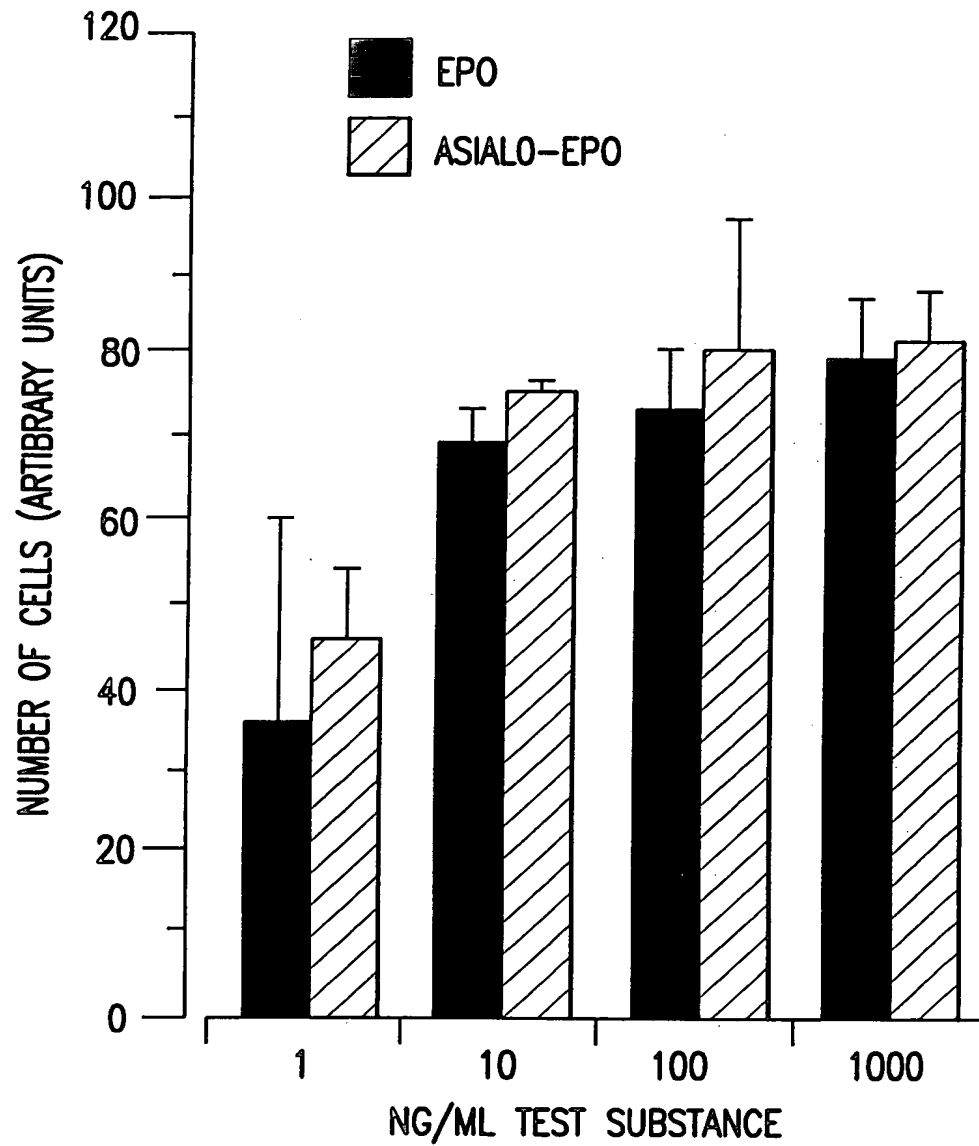


FIG. 7

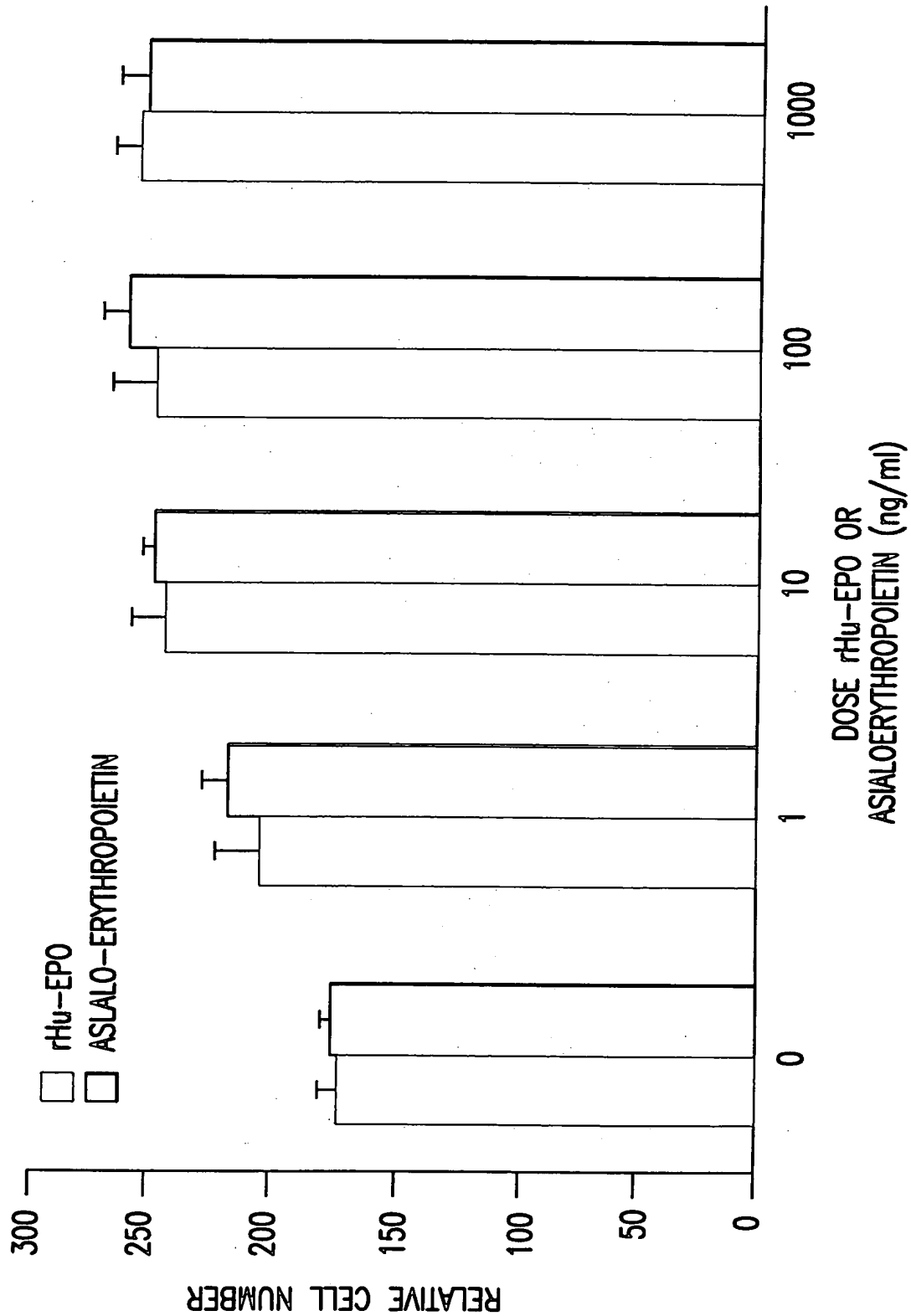


FIG.8

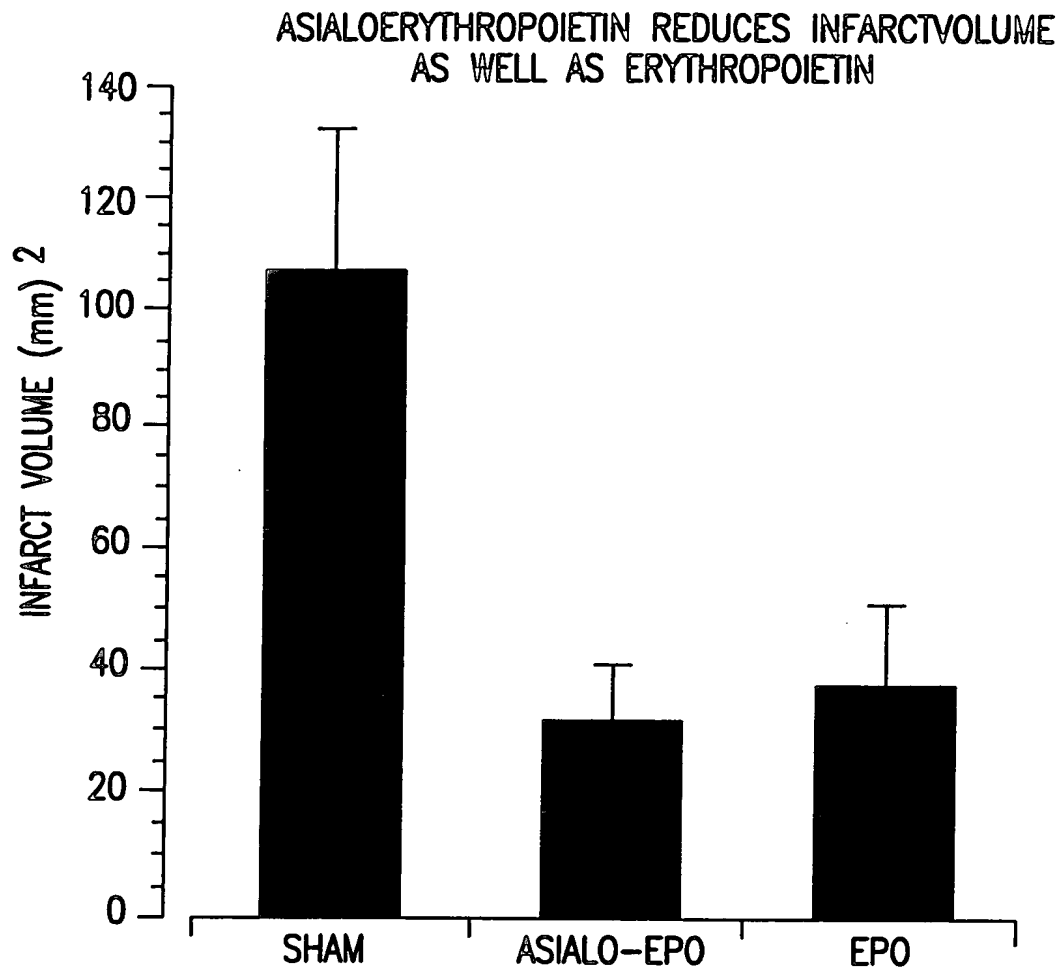
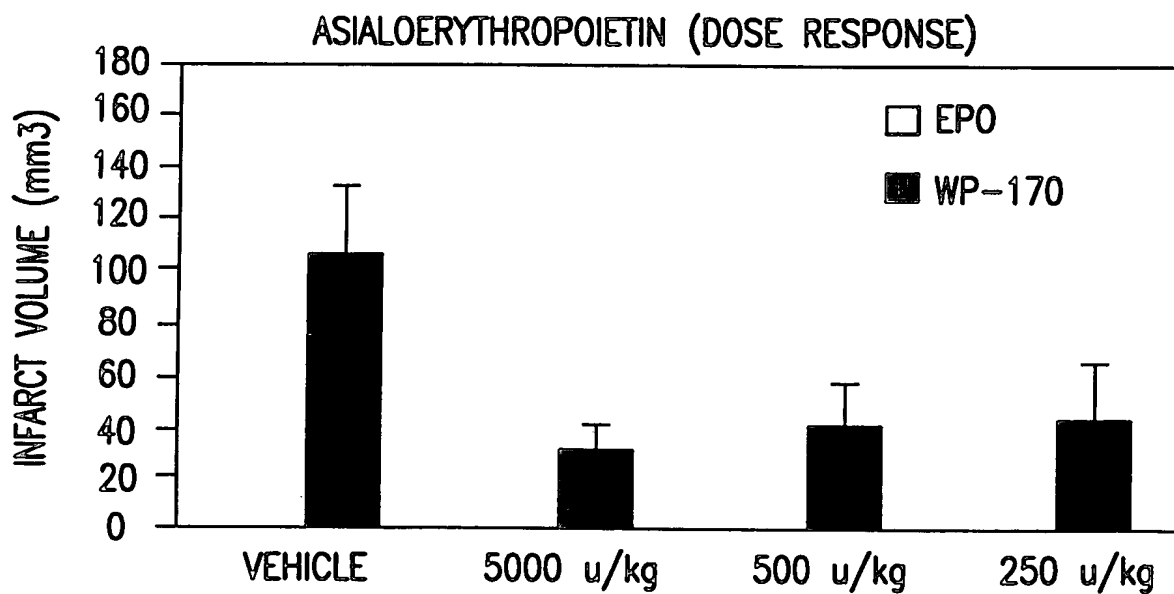


FIG. 9



n FOR EACH GROUP IS
GREATER THAN OR EQUAL TO 4

FIG. 10

PROTECTION OF P19 CELLS FROM SERUM
DEPRIVATION BY IODO-EPO

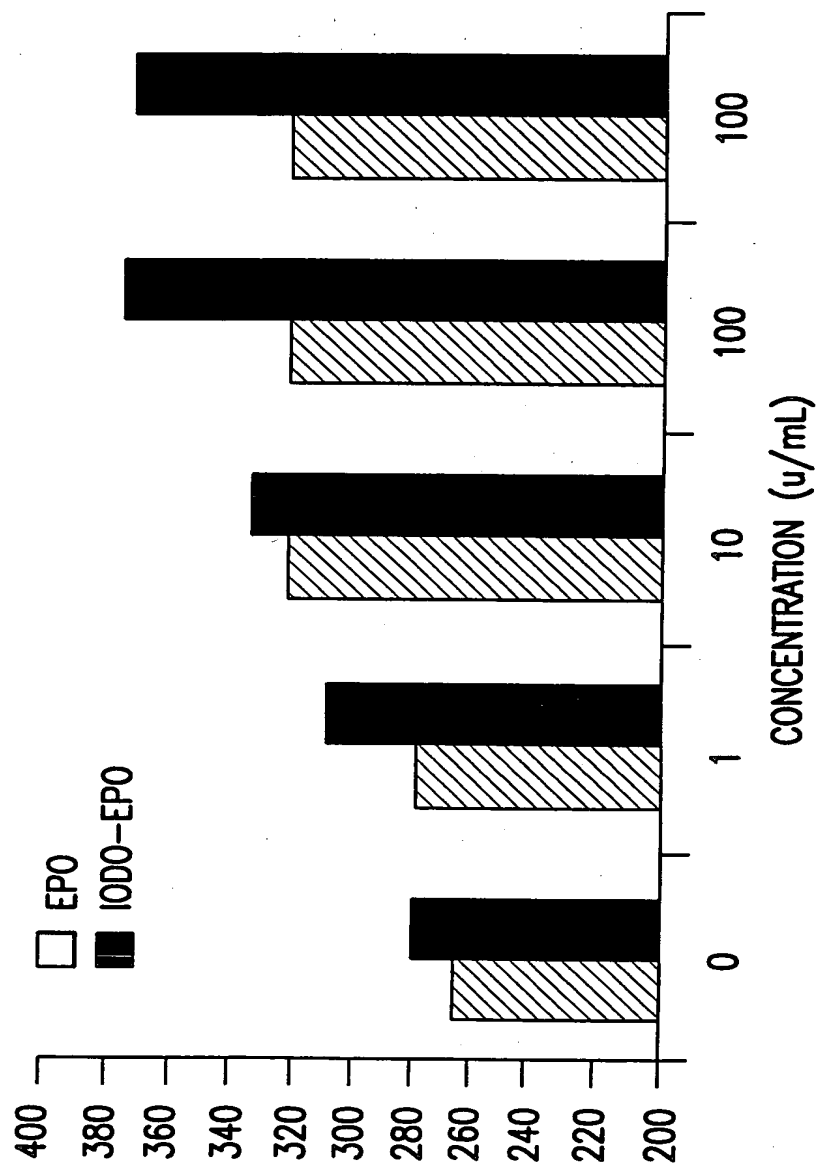


FIG.11

BIOTINYLATED-EPO AND ASIALO-EPO RETAIN
ACTIVITY IN P19 ASSAY

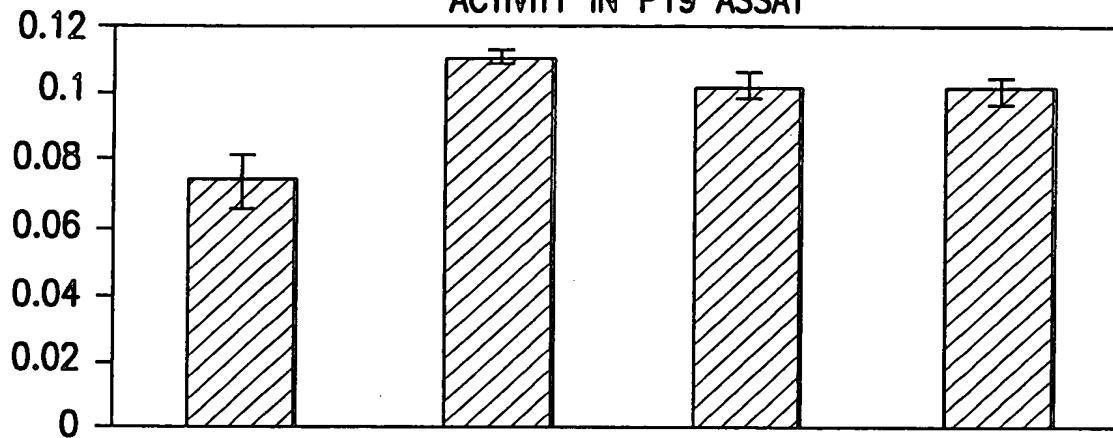


FIG.12

SURVIVAL OF P19 CELLS AFTER SERUM WITHDRAWAL

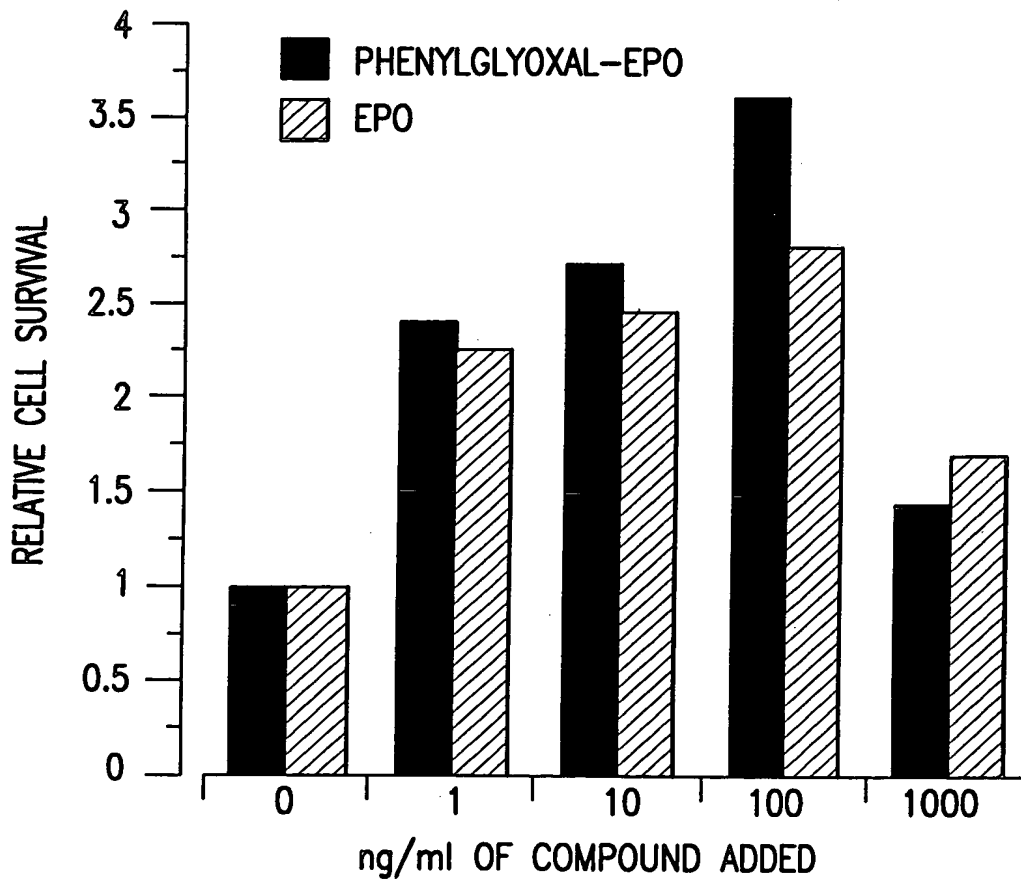


FIG.13

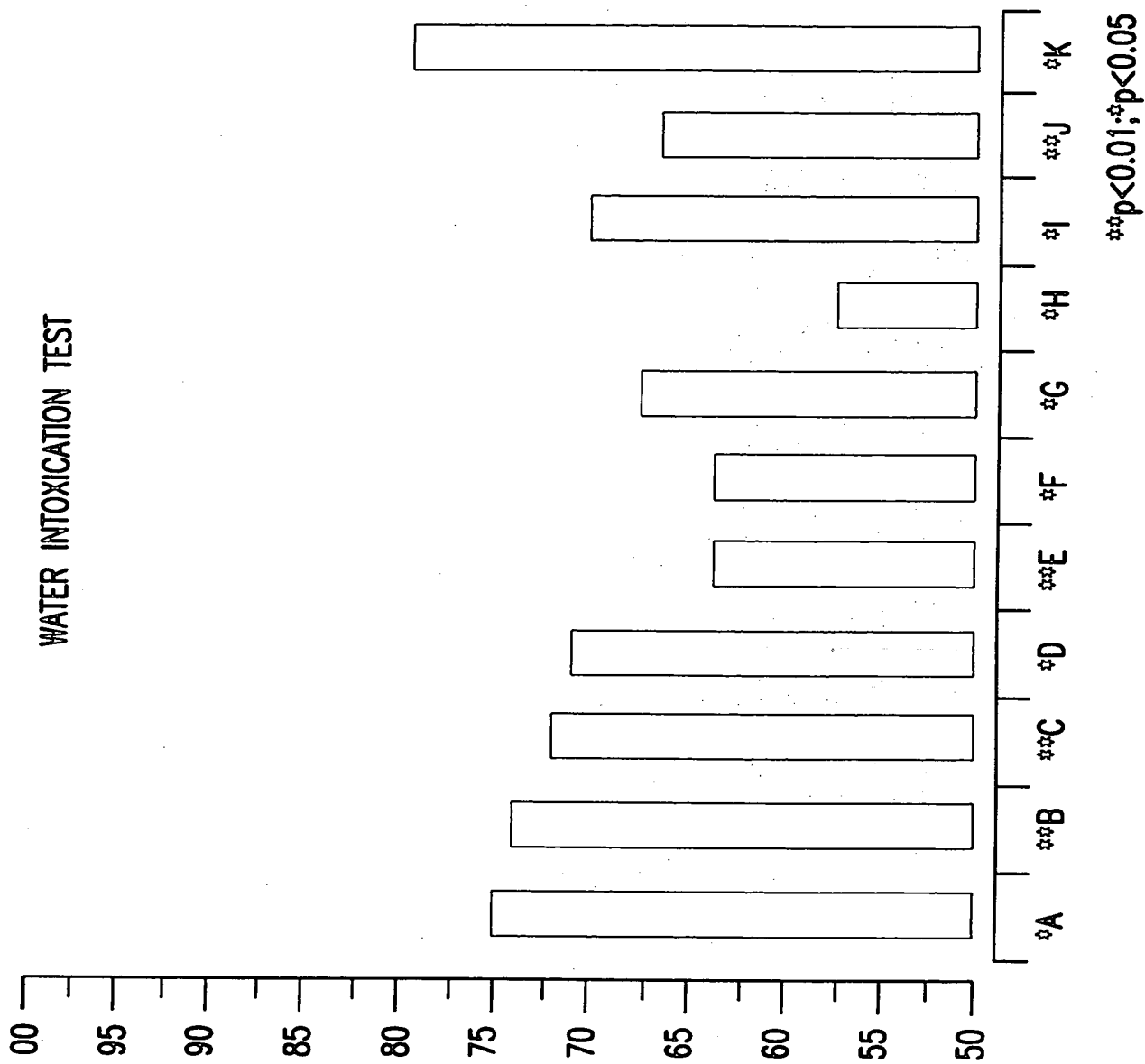


FIG. 14

ERYTHROPOIETIN IMPROVES CARDIAC FUNCTION IN A HEART ISOLATED FOR TRANSPLANTATION

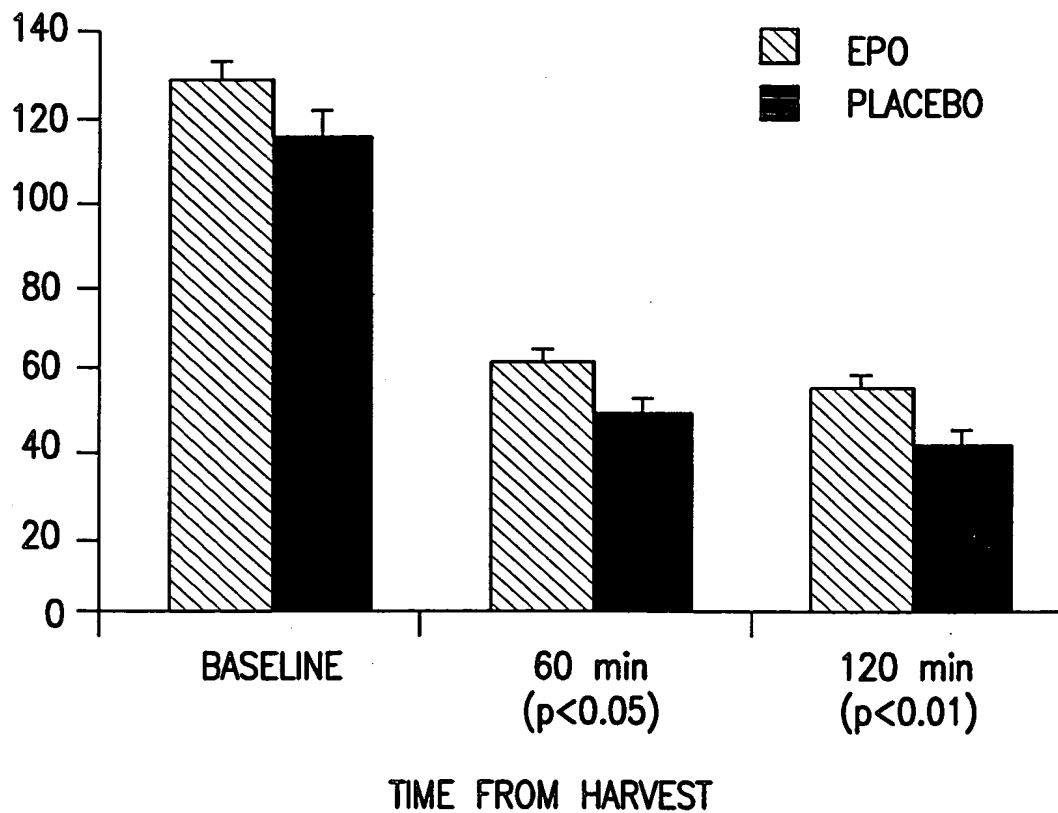


FIG. 15

RAT HEART 7 DAYS AFTER 30 MINUTES OF ISCHEMIA

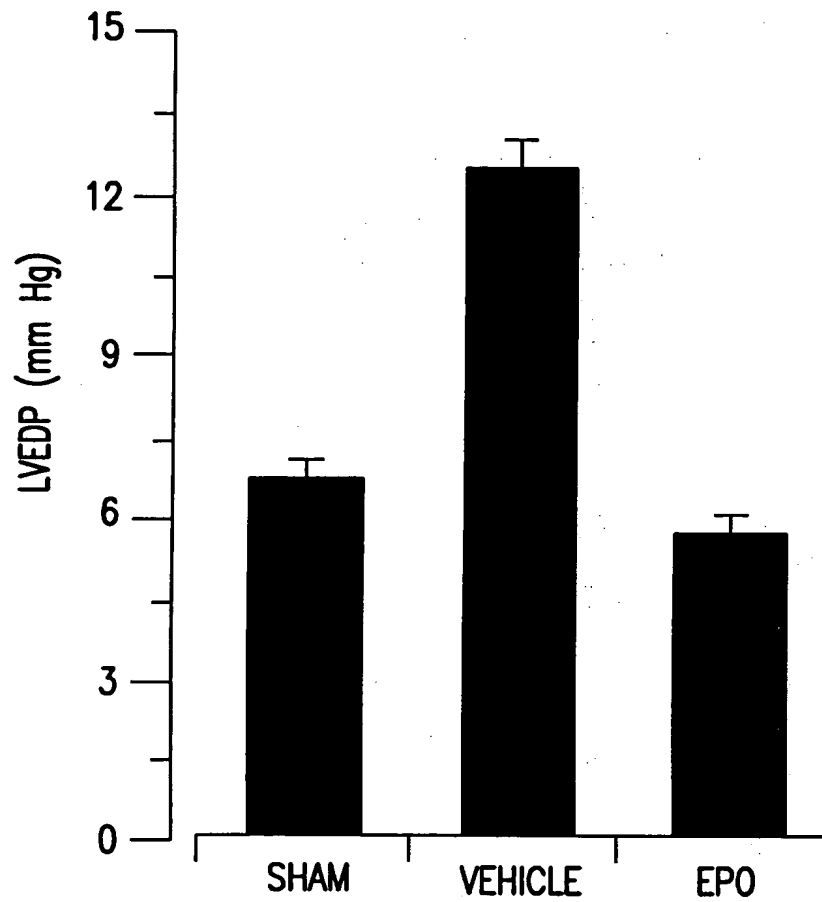


FIG. 16

ELECTRORETINOGRAMS
FROM RATS SUBJECTED
TO 60 MINUTES OF
ISCHEMIA

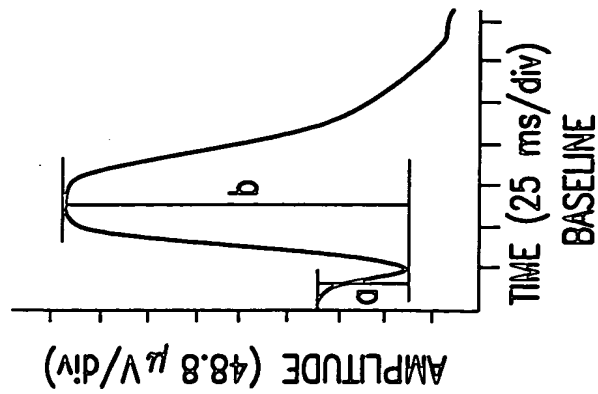


FIG.17A

ELECTRORETINOGRAMS
FROM RATS SUBJECTED
TO 60 MINUTES OF
ISCHEMIA

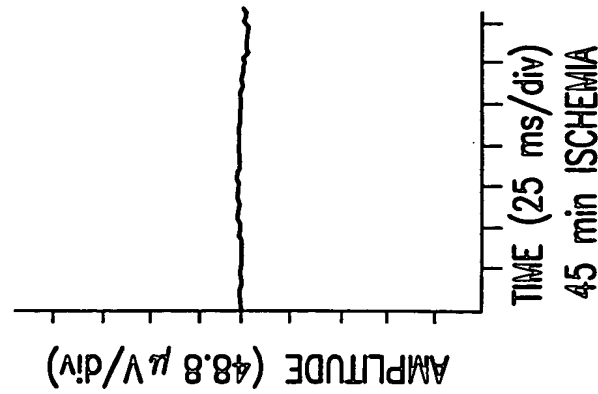


FIG.17B

ELECTRORETINOGRAMS
FROM RATS SUBJECTED
TO 60 MINUTES OF
ISCHEMIA

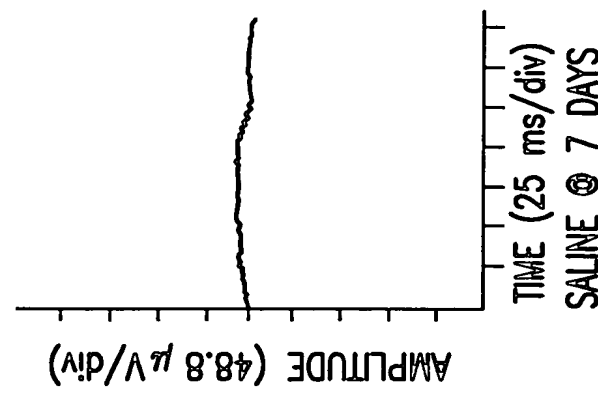


FIG.17C

ELECTRORETINOGRAMS
FROM RATS SUBJECTED
TO 60 MINUTES OF
ISCHEMIA

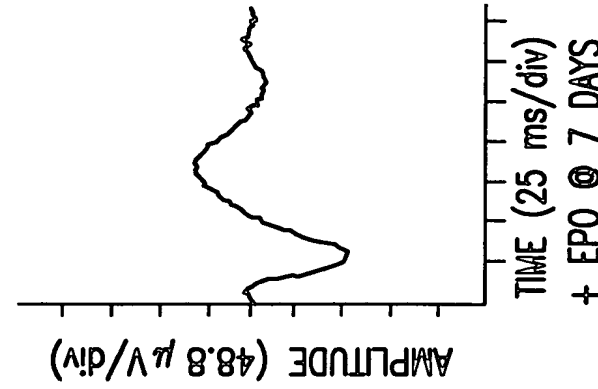


FIG.17D

RETINOGRAM AMPLITUDE AFTER 60 min. ISCHEMIA

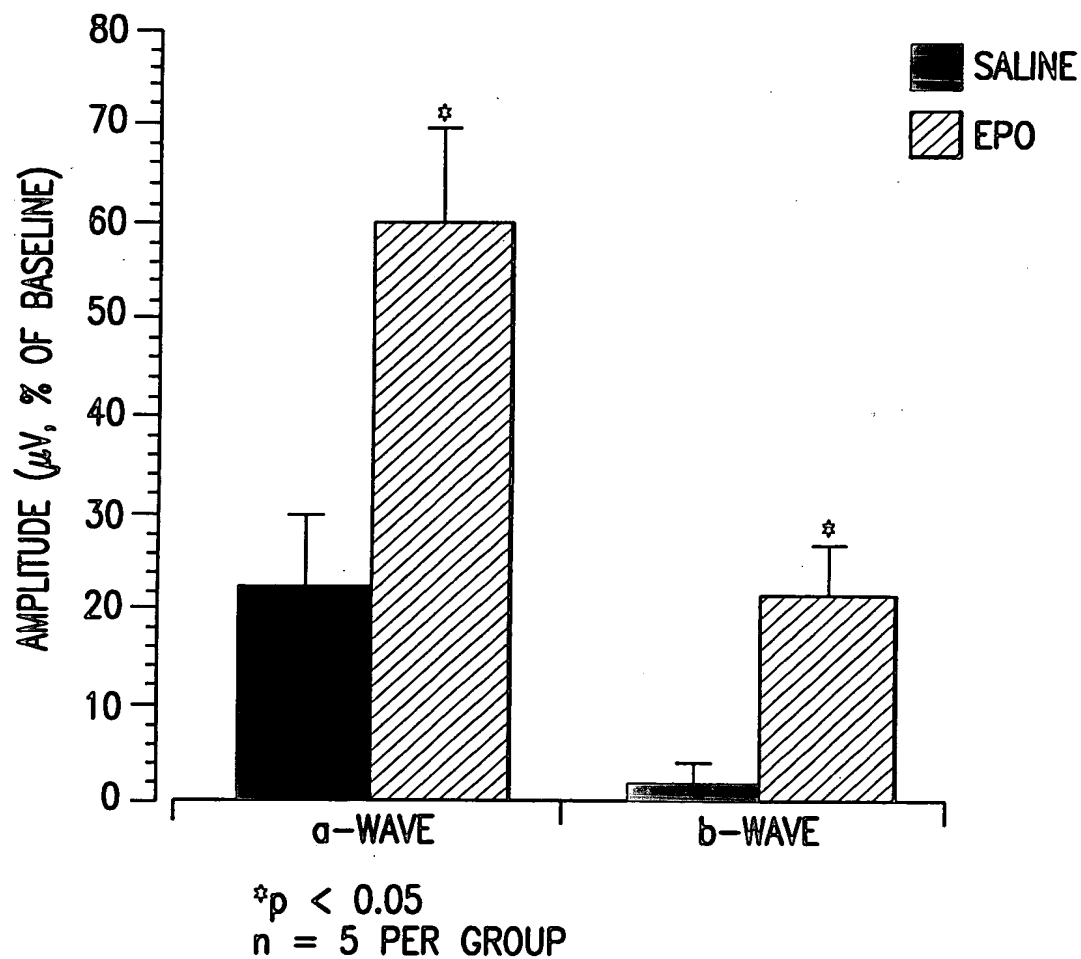


FIG.18

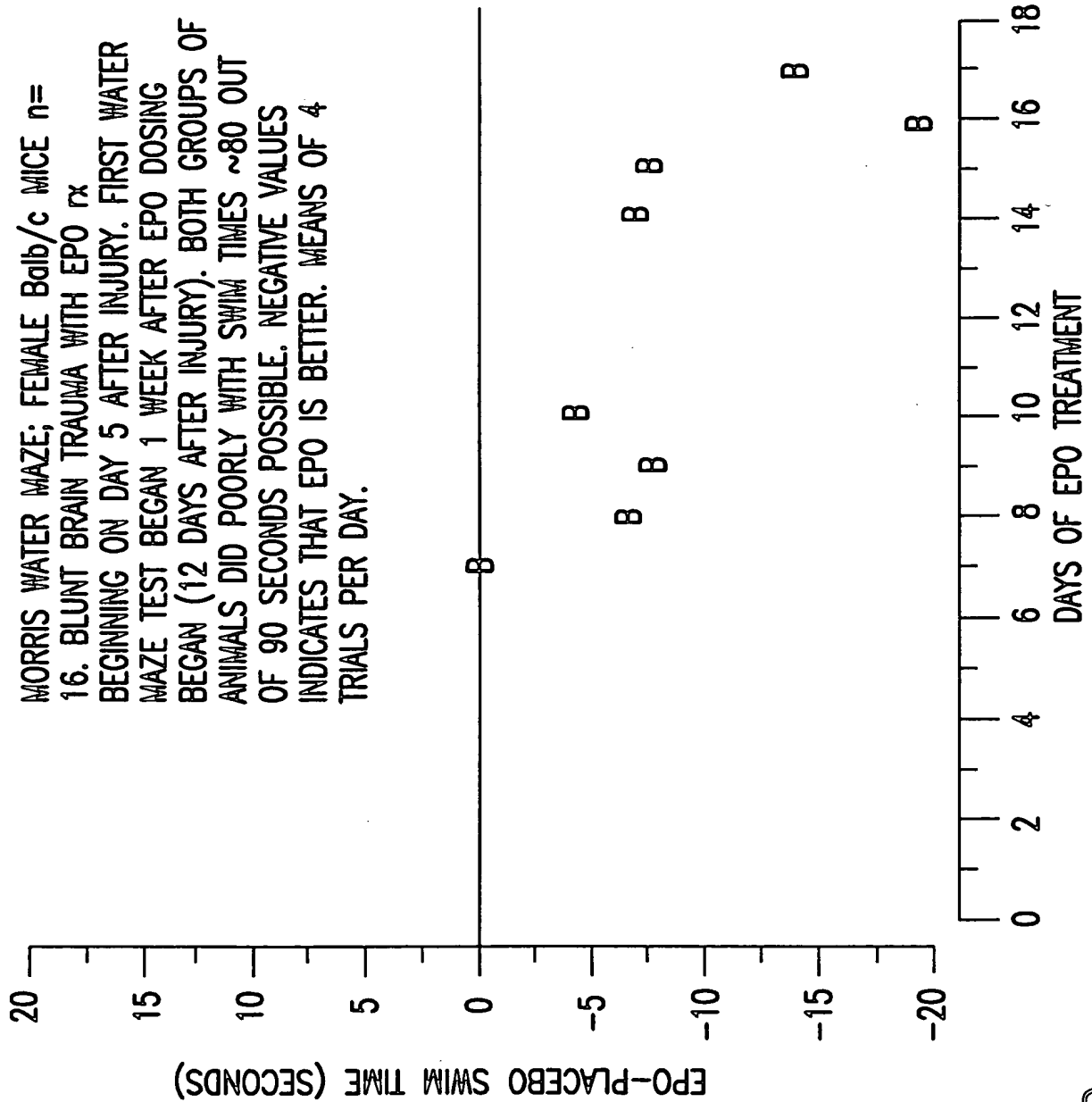


FIG. 19

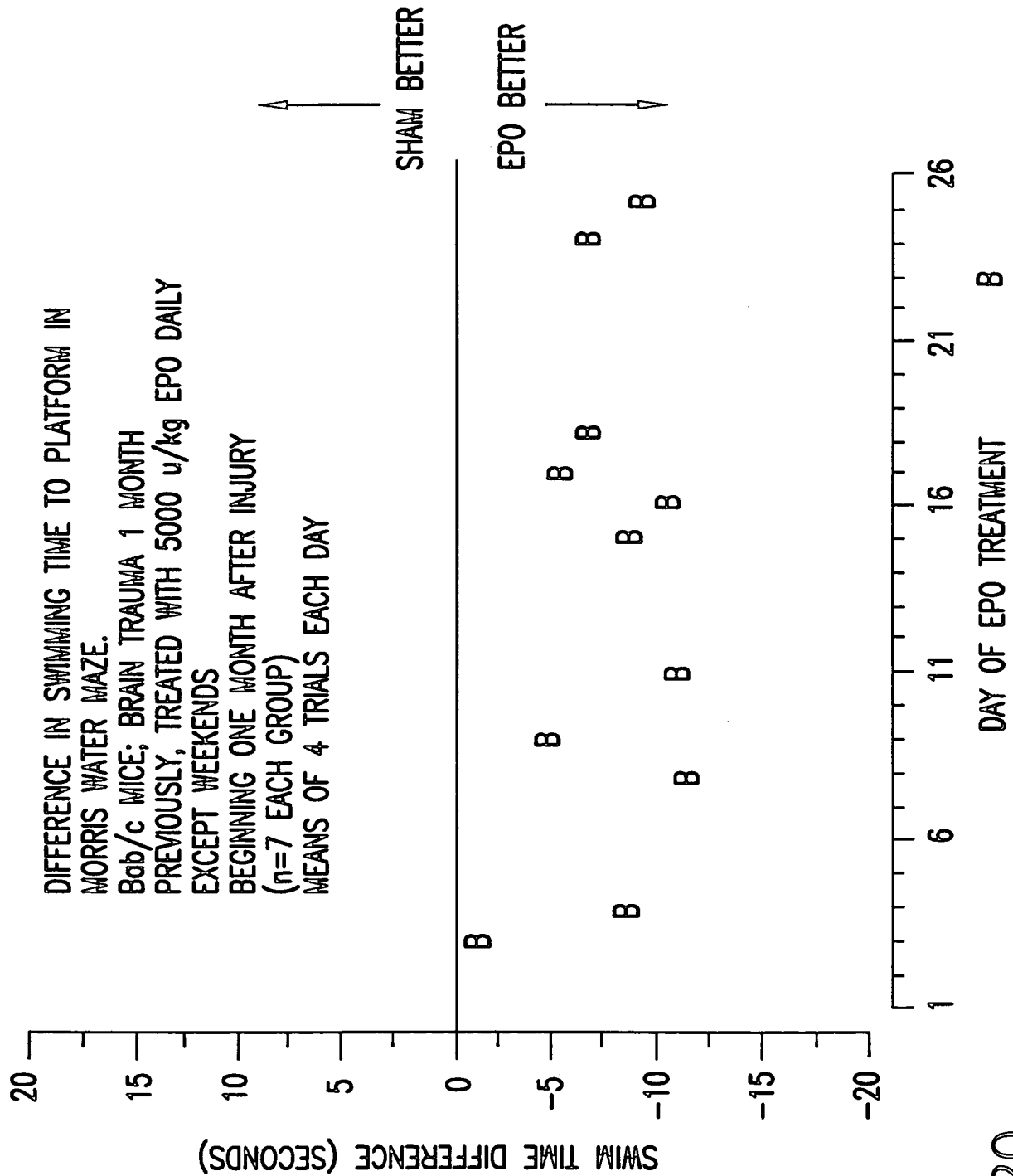


FIG.20

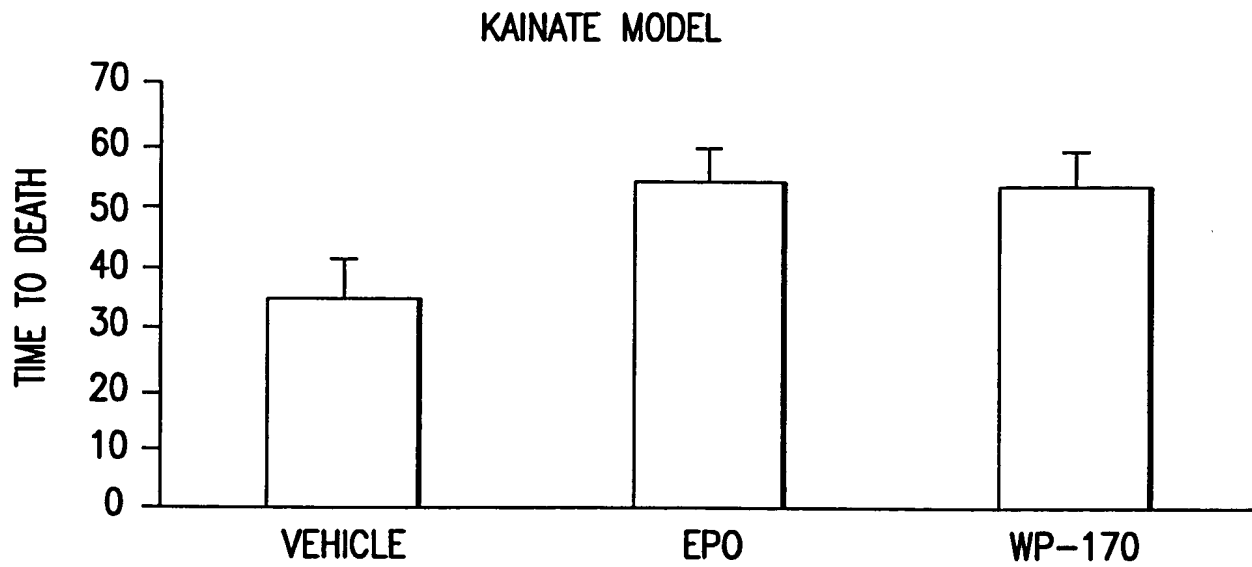


FIG.21

RAT SPINAL CORD COMPRESSION MODEL

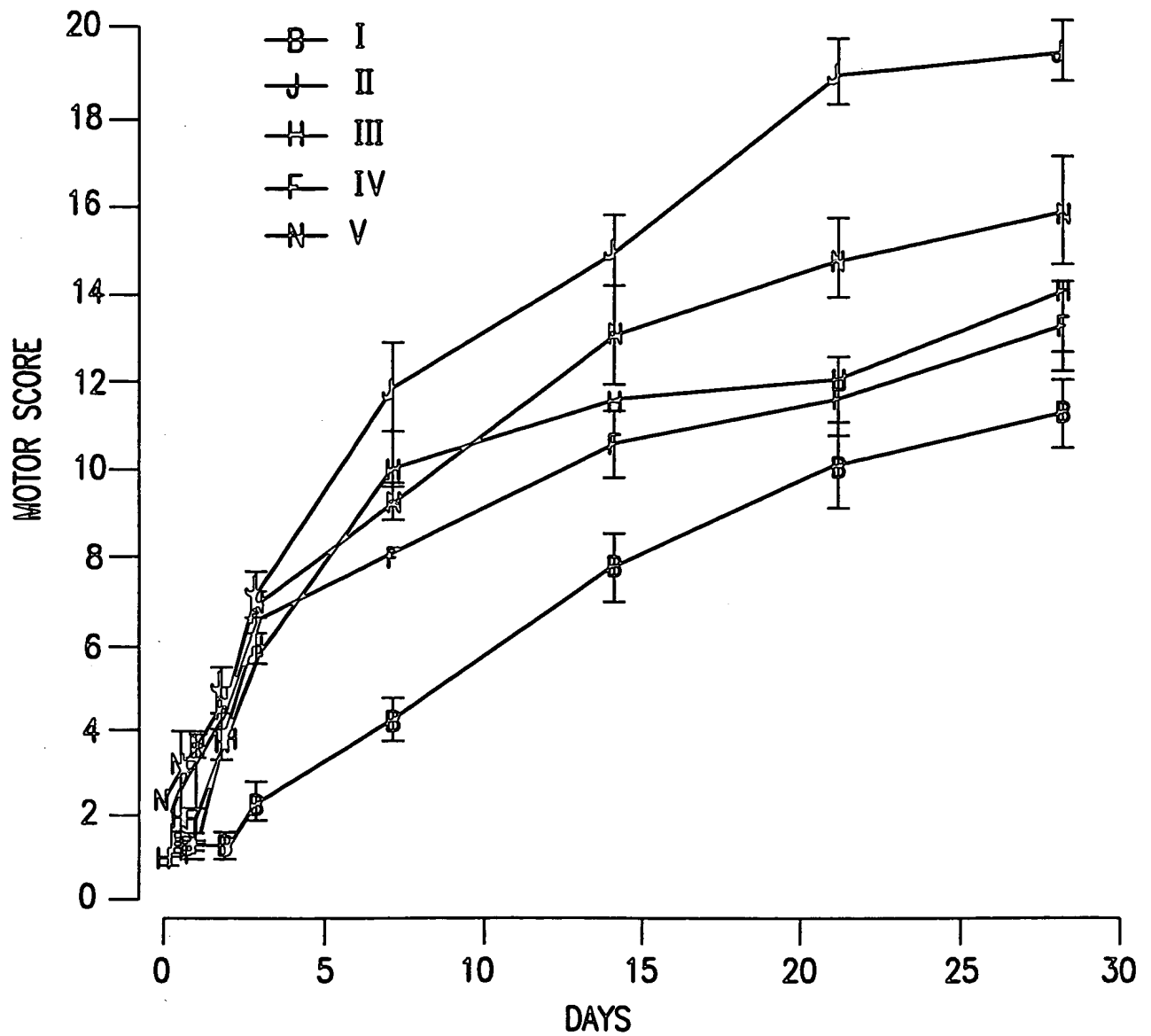


FIG.22

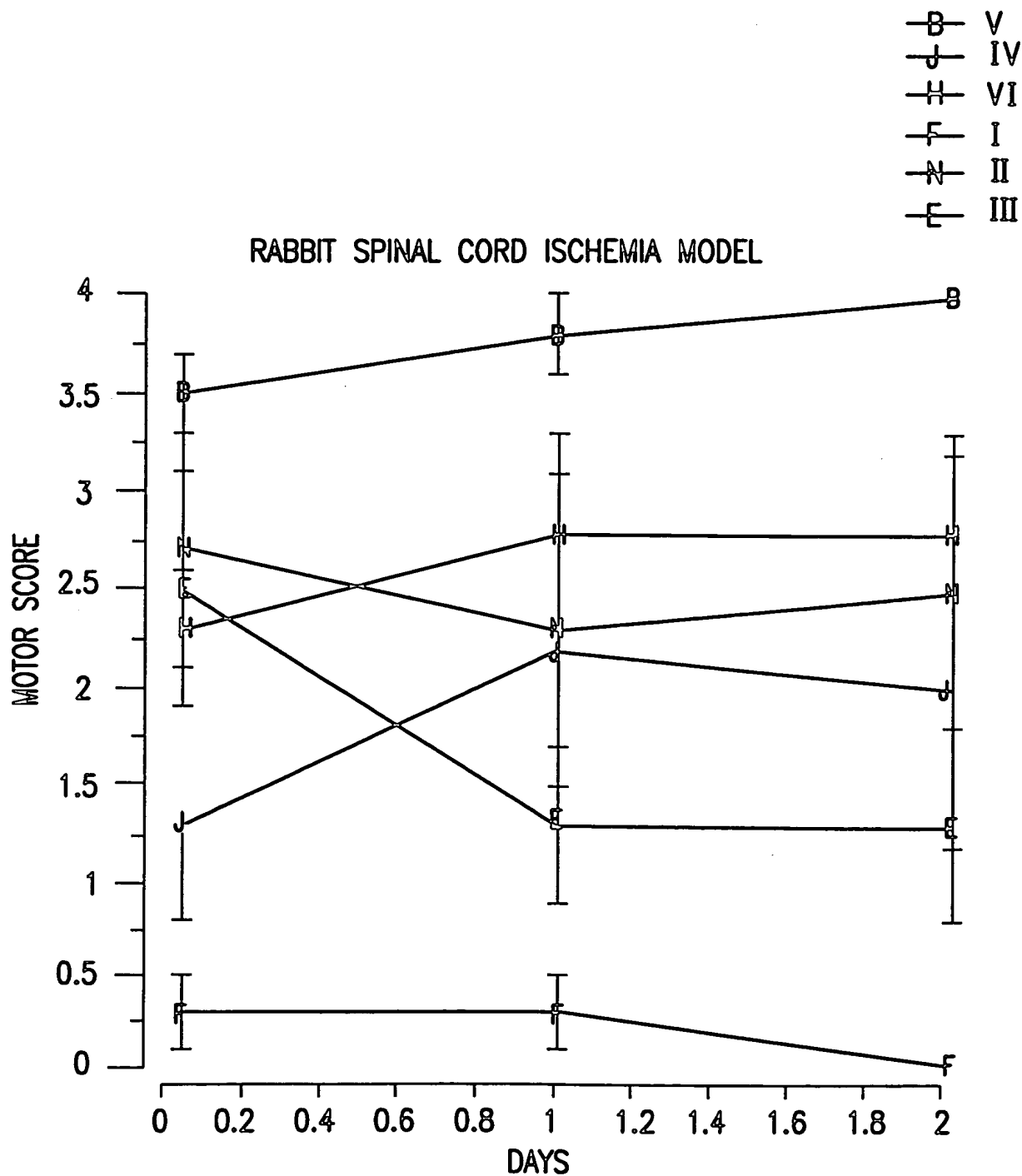


FIG.23

Docket No.: 10165-022-999

Serial No.: 10/612,665

Inventor(s): Nielsen et al.

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs



FIG.24A



FIG.24B



FIG.24C

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Inventor(s): Nielsen et al.

Title: Recombinant tissue protective cytokines and
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FIG.25A

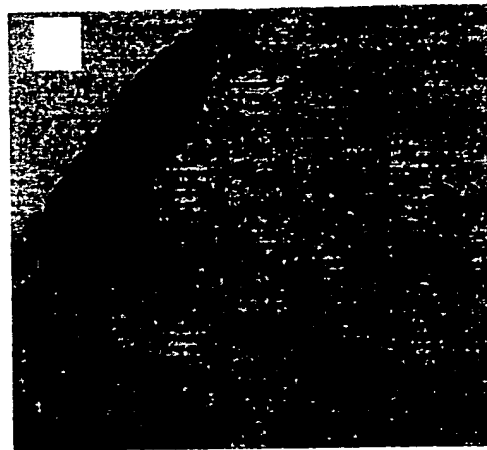
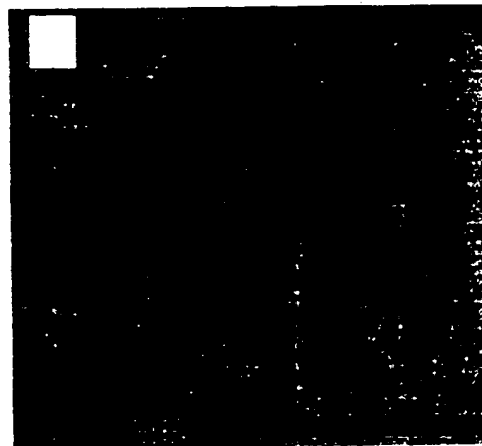


FIG.25B



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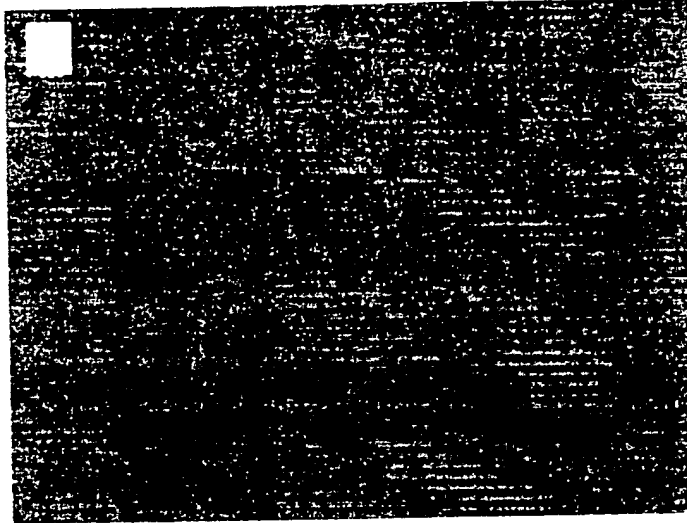


FIG.26A

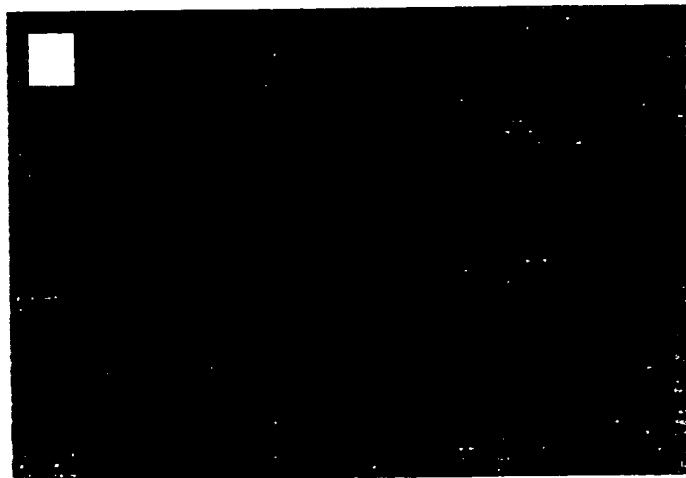


FIG.26B

Docket No.: 10165-022-999

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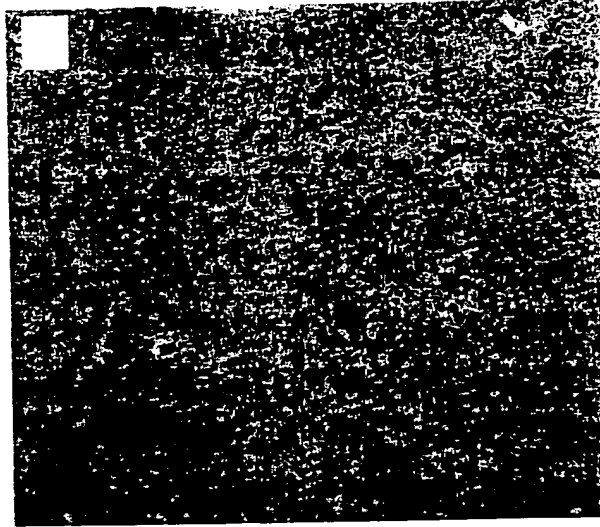


FIG.27A

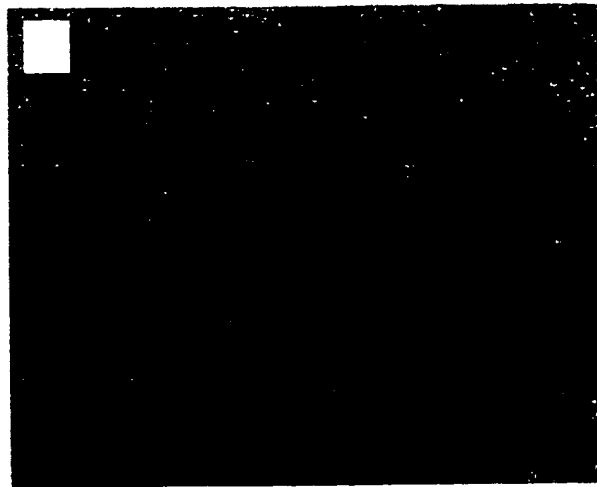


FIG.27B

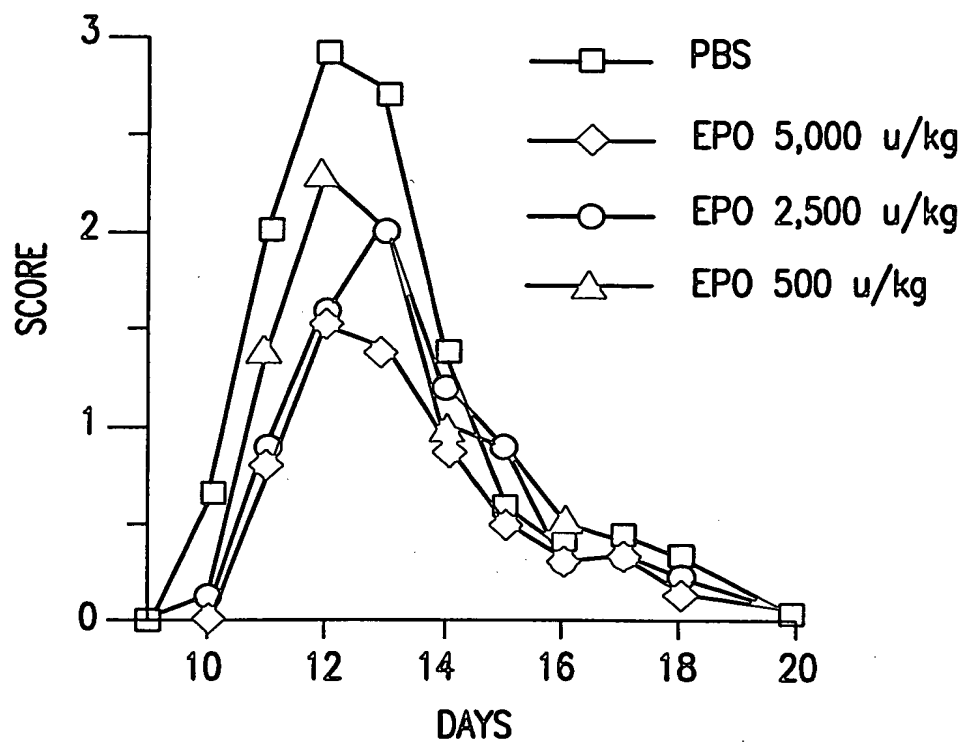


FIG.28

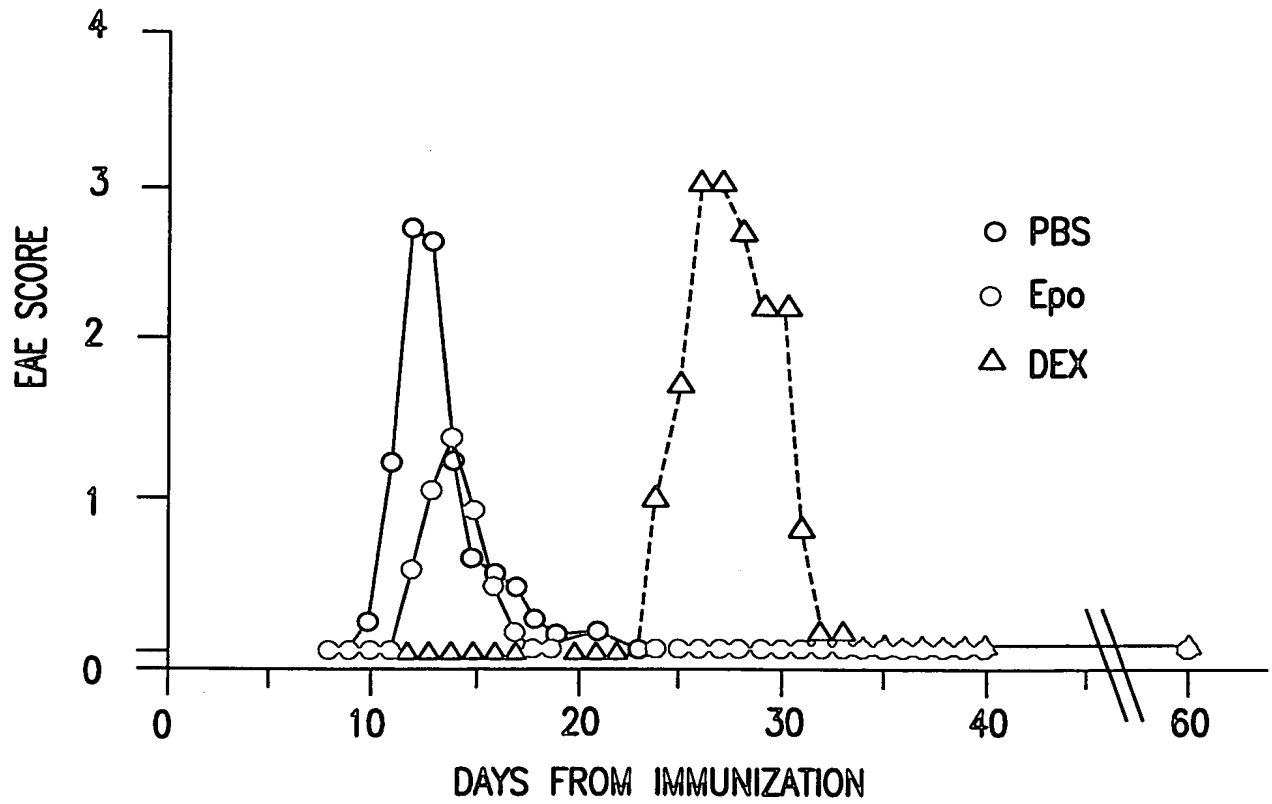


FIG.29

Title: Recombinant tissue protective cytokines and encoding nucleic acids thereof for protection, restoration, and enhancement of responsive cells, tissues, and organs

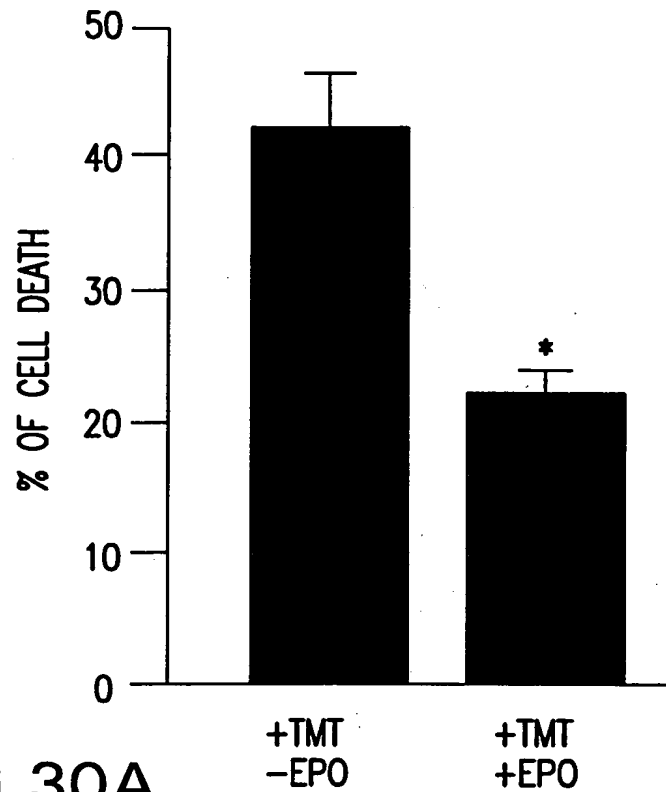


FIG.30A

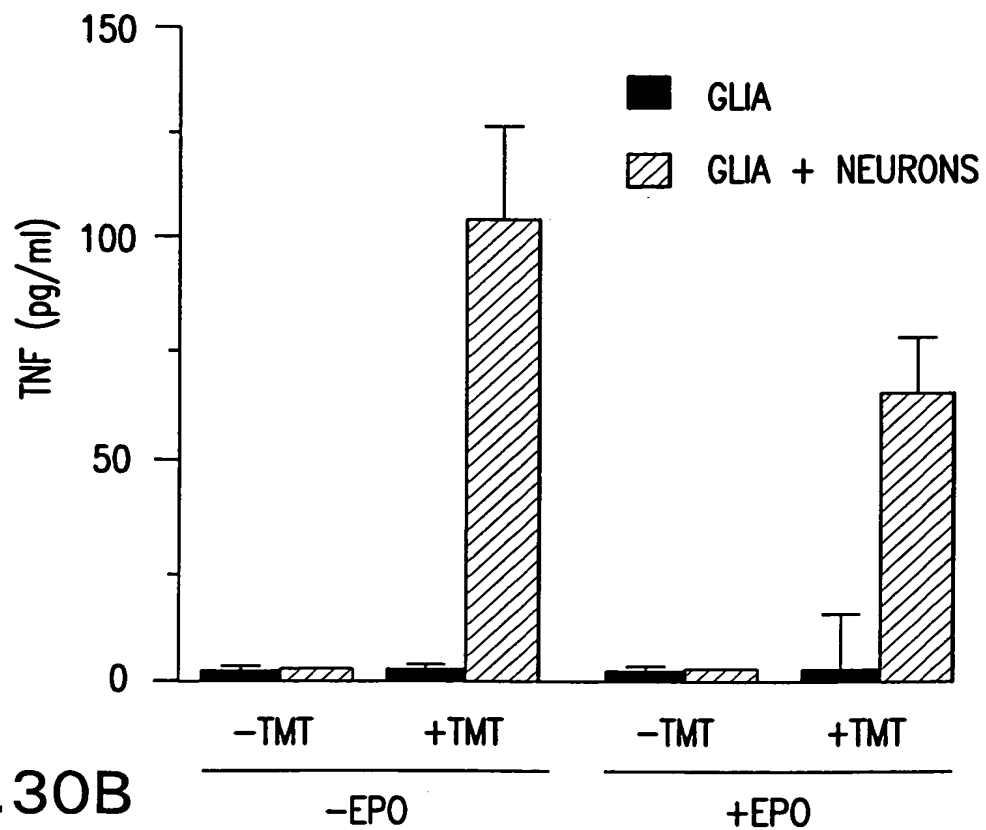
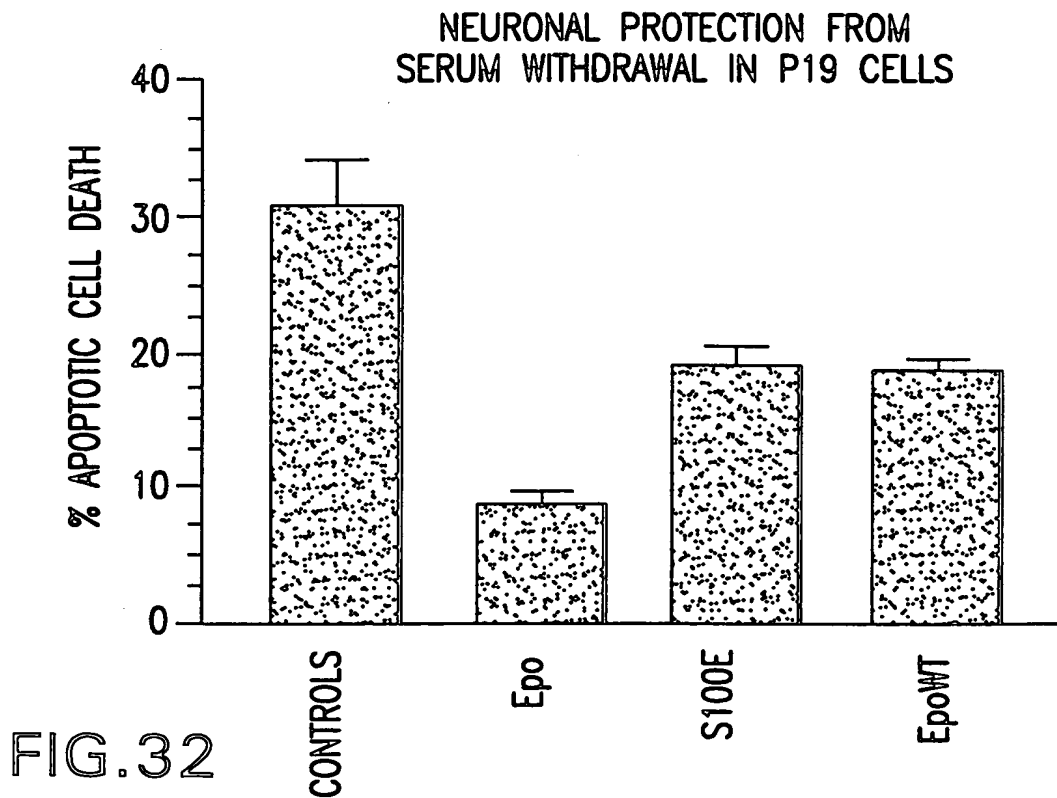
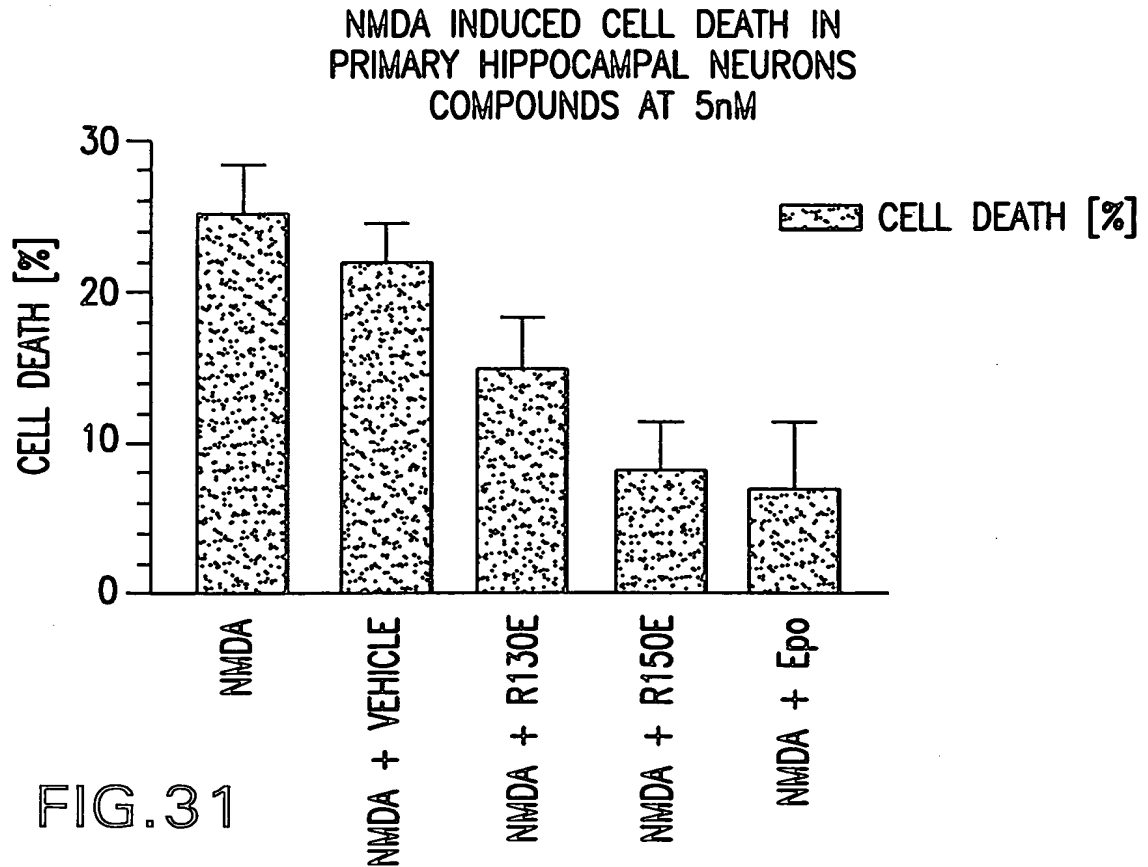


FIG.30B



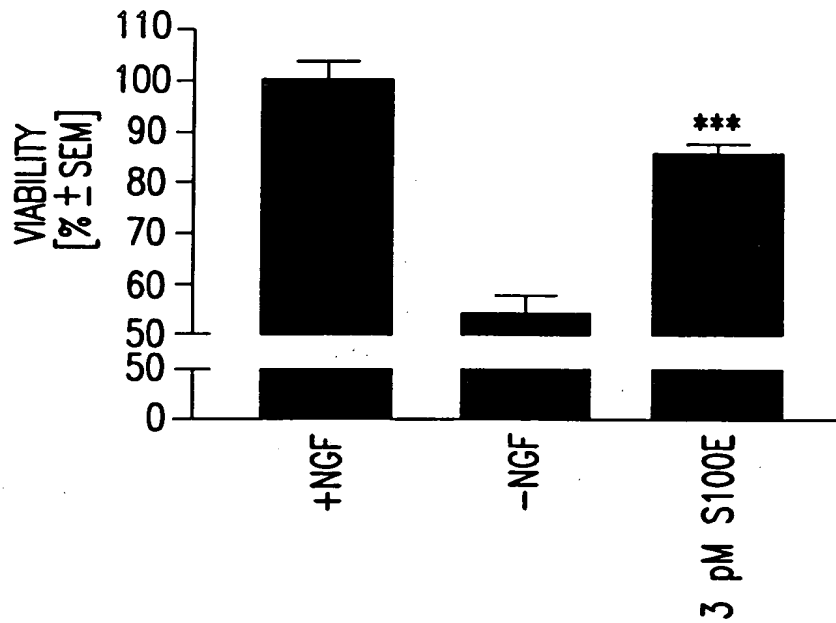


FIG.33A

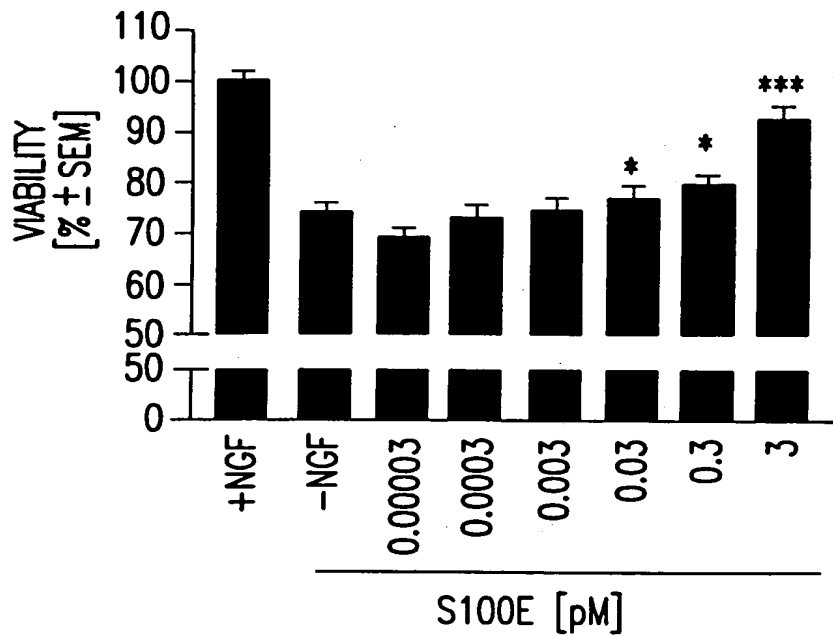


FIG.33B

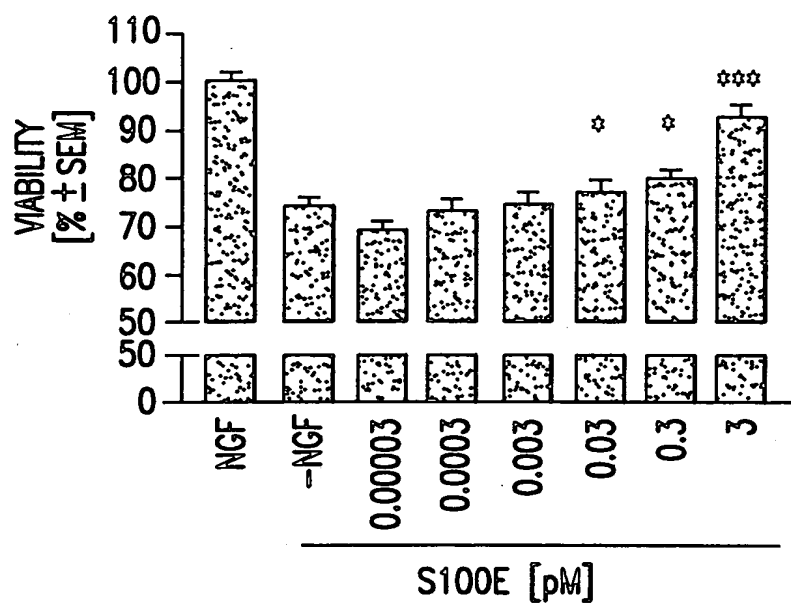


FIG. 34A

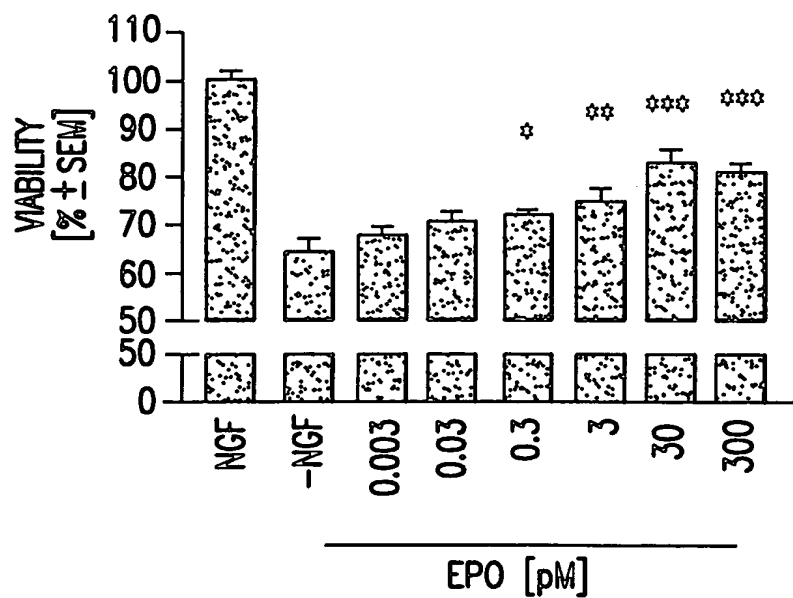


FIG. 34B

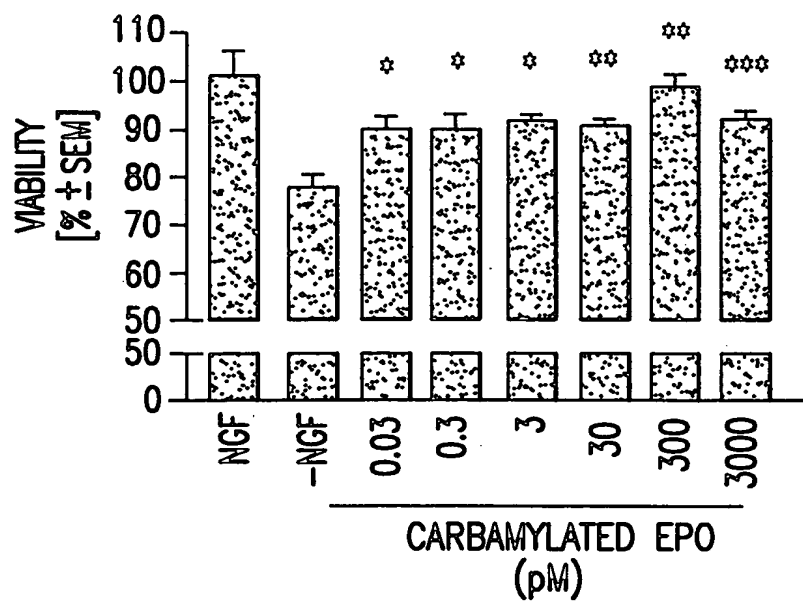
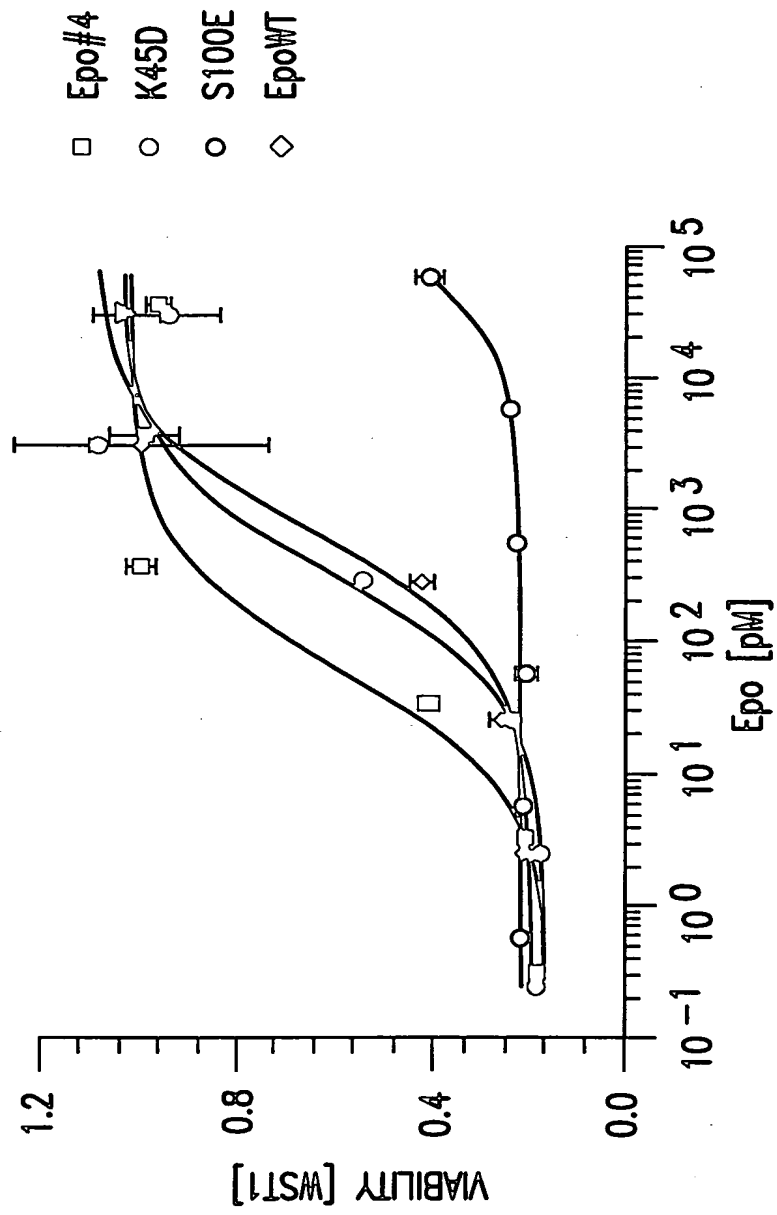


FIG. 34C

UT7 BIOASSAY
Epo MUTANTS



	Epo#4	K45D	S100E	EpoWT
EC50	58.13	294.0	5.3840e+006	608.0

FIG. 35

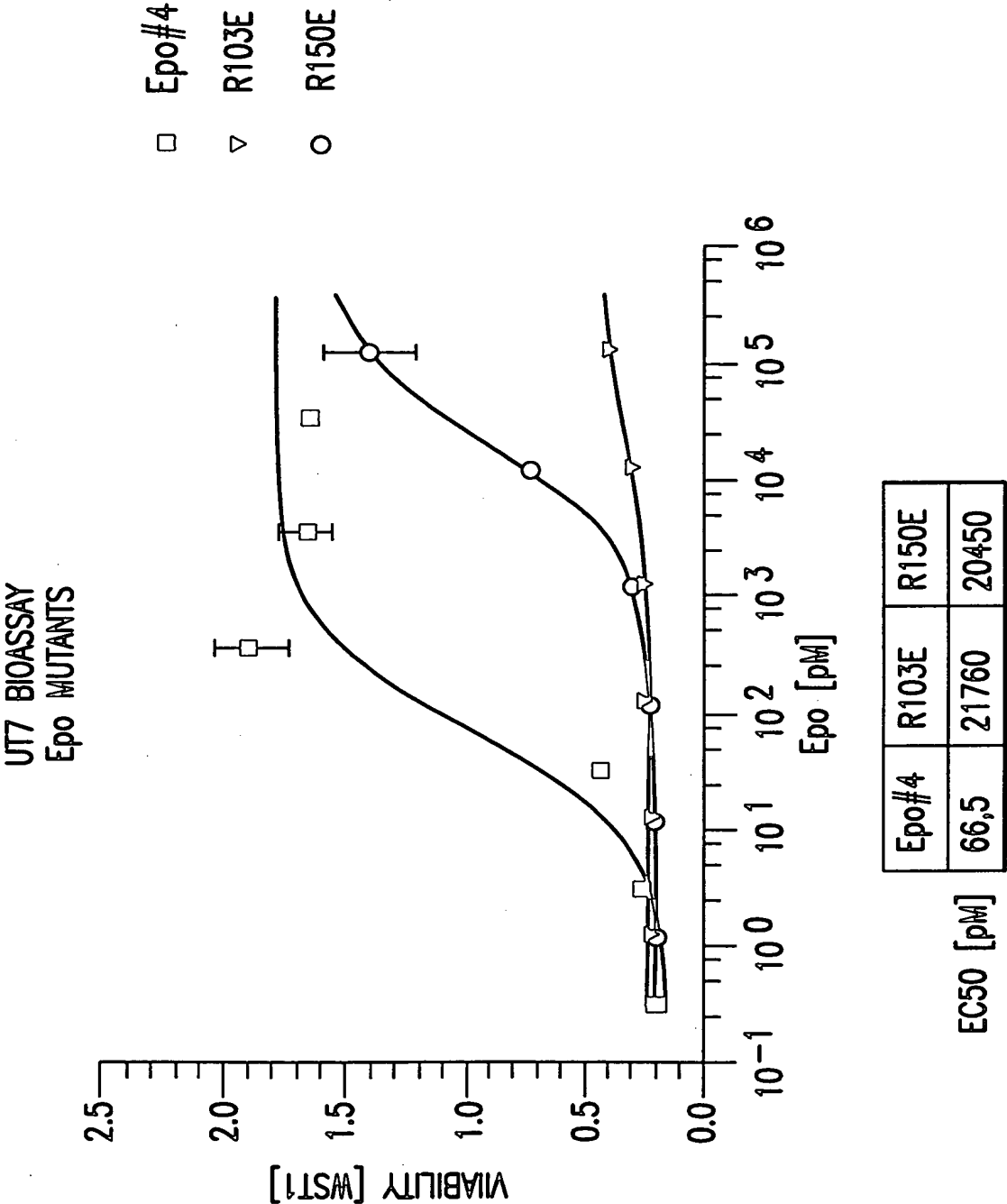


FIG.36

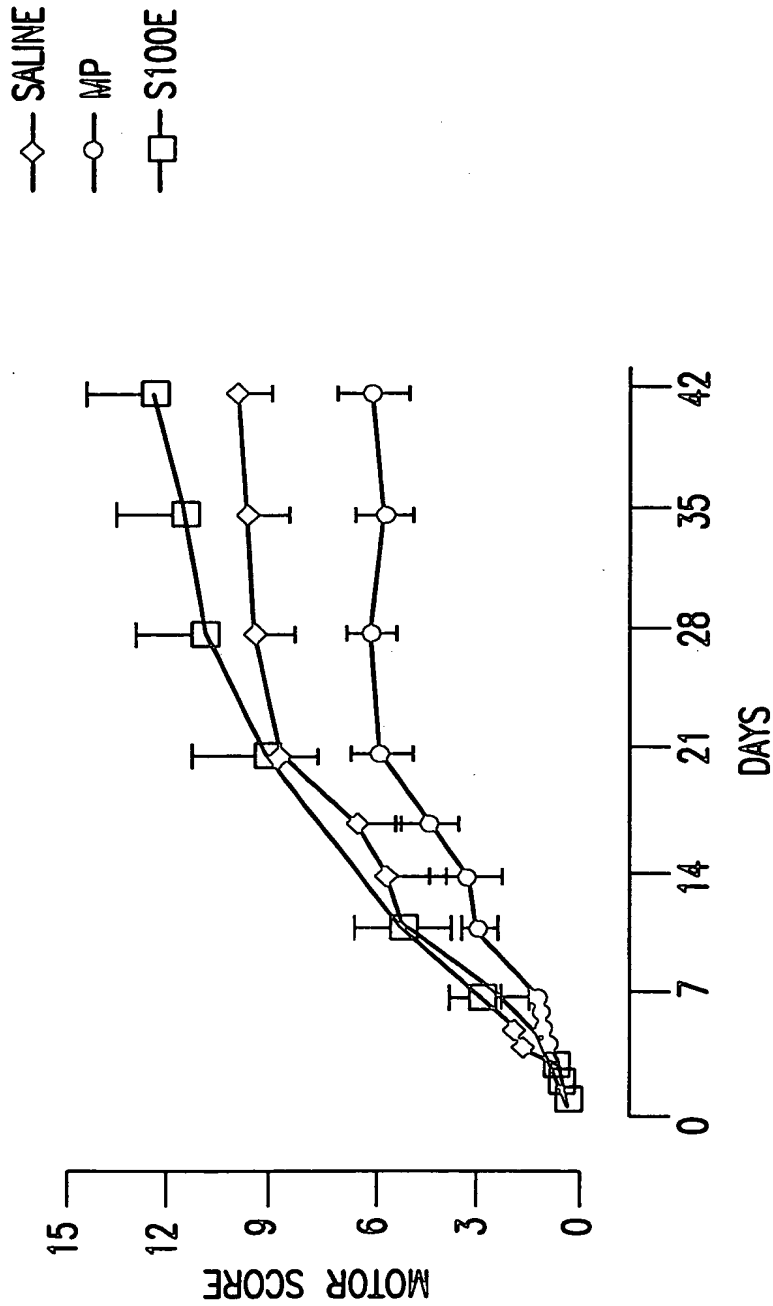


FIG.37

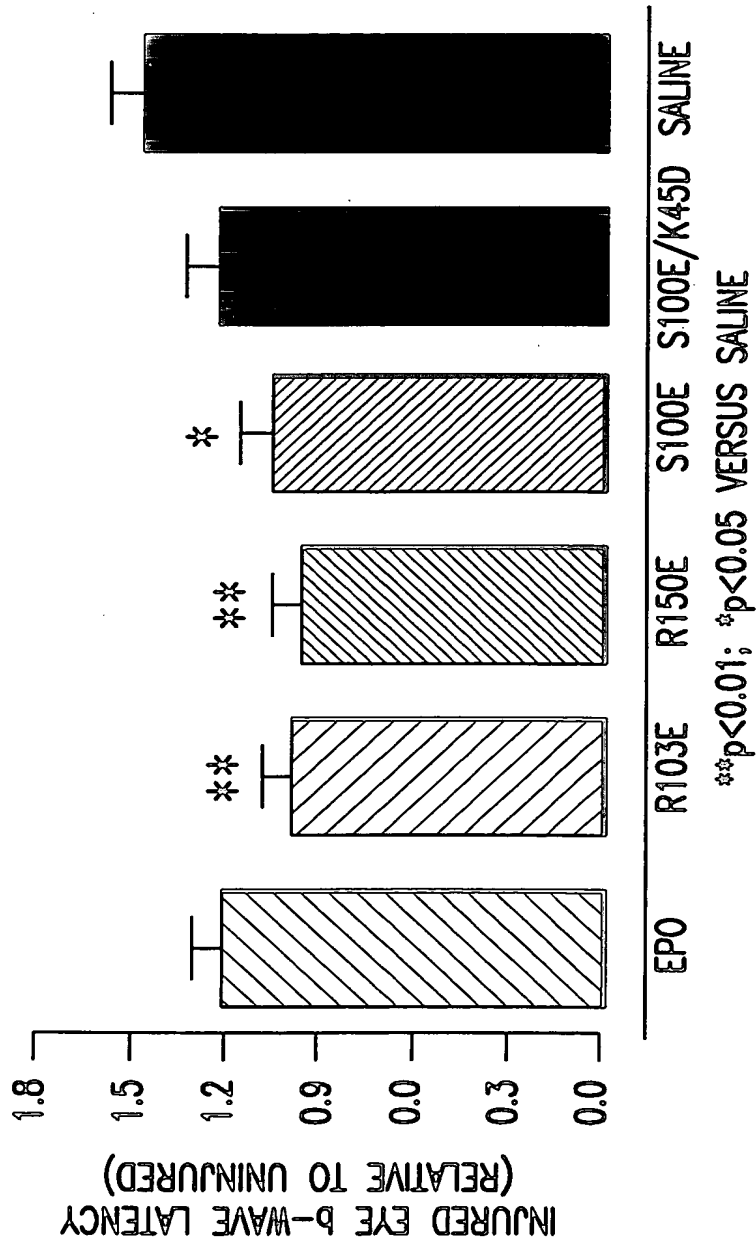


FIG.38